

## WHAT IS CLAIMED IS:

1           1. A mobile communication system by which a dedicated  
2 physical data channel with error correction and a dedicated  
3 physical control channel without error correction, both of the  
4 forwardlink, are time-division multiplexed and transmitted from  
5 a wireless base station apparatus to mobile station terminals,  
6 comprising:

7           a power correcting unit which corrects transmission power  
8 with the encoding gain of said dedicated physical data channel  
9 being taken into consideration, and

10          a transmitting unit which transmits said dedicated  
11 physical channels of the forward link with the corrected  
12 transmission power.

1           2. The mobile communication system, as claimed in claim  
2 1, wherein:

3           said power correcting unit corrects said transmission  
4 power at each of transmission time intervals.

1           3. The mobile communication system, as claimed in claim  
2 1, wherein:

3           said power correcting unit corrects the encoding gain of  
4 the transmission power obtained by error correction processing  
5 on said dedicated physical data channel and said dedicated  
6 physical control channel on the basis of bit repetition/bit  
7 thinning-out due to rate matching figured out from variations  
8 in transmitted data quantity.

1           4. The mobile communication system, as claimed in claim

2   2, wherein:

3           said power correcting unit corrects the encoding gain of  
4   the transmission power obtained by error correction processing  
5   on said dedicated physical data channel and said dedicated  
6   physical control channel on the basis of bit repetition/bit  
7   thinning-out due to rate matching figured out from variations  
8   in transmitted data quantity.

1           5. The mobile communication system, as claimed in claim

2   3, wherein:

3           said rate matching is to satisfy quality of service (QoS)  
4   requirements for voice communication and packet communication  
5   at the same time.

1           6. The mobile communication system, as claimed in claim

2   4, wherein:

3           said rate matching is to satisfy QoS requirements for voice  
4   communication and packet communication at the same time.

1           7. The mobile communication system, as claimed in claim

2   1, wherein:

3           said mobile communication system utilizes the code  
4   division multiple access (CDMA) formula.

1           8. The mobile communication system, as claimed in claim

2 2, wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       9. The mobile communication system, as claimed in claim  
2 3, wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       10. The mobile communication system, as claimed in claim  
2 4, wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       11. The mobile communication system, as claimed in claim  
2 5, wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       12. The mobile communication system; as claimed in claim  
2 6, wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       13. A wireless base station apparatus by which a dedicated  
2 physical data channel with error correction and a dedicated  
3 physical control channel without error correction, both of the

4 forward link, are time-division multiplexed and transmitted to  
5 mobile station terminals, comprising:

6 a power correcting unit which corrects transmission power  
7 with the encoding gain of said dedicated physical data channel  
8 being taken into consideration, and

9 a transmitting unit which transmits said dedicated  
10 physical channels of the forward link with the corrected  
11 transmission power.

1 14. The wireless base station apparatus, as claimed in  
2 claim 13, wherein:

3 said power correcting unit corrects said transmission  
4 power at each of transmission time intervals.

1 15. The wireless base station apparatus, as claimed in  
2 claim 13, wherein:

3 said power correcting unit corrects the encoding gain of  
4 the transmission power obtained by error correction processing  
5 on said dedicated physical data channel and said dedicated  
6 physical control channel on the basis of bit repetition/bit  
7 thinning-out due to rate matching figured out from variations  
8 in transmitted data quantity.

1 16. The wireless base station apparatus, as claimed in  
2 claim 14, wherein:

3 said power correcting unit corrects the encoding gain of  
4 the transmission power obtained by error correction processing

5 on said dedicated physical data channel and said dedicated  
6 physical control channel on the basis of bit repetition/bit  
7 thinning-out due to rate matching figured out from variations  
8 in transmitted data quantity.

1 17. The wireless base station apparatus, as claimed in  
2 claim 15, wherein:

3 saidratematching is to satisfy QoS requirements for voice  
4 communication and packet communication at the same time.

1 18. The wireless base station apparatus, as claimed in  
2 claim 16 wherein:

3 saidratematching is to satisfy QoS requirements for voice  
4 communication and packet communication at the same time.

1 19. The wireless base station apparatus, as claimed in  
2 claim 13 wherein:

3 said mobile communication system utilizes the CDMA  
4 formula.

1 20. The wireless base station apparatus, as claimed in  
2 claim 14 wherein:

3 said mobile communication system utilizes the CDMA  
4 formula.

1 21. The wireless base station apparatus, as claimed in  
2 claim 15, wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       22. The wireless base station apparatus, as claimed in  
2 claim 16 wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       23. The wireless base station apparatus, as claimed in  
2 claim 17 wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       24. The wireless base station apparatus, as claimed in  
2 claim 18 wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       25. A power control method for a mobile communication  
2 system by which a dedicated physical data channel with error  
3 correction and a dedicated physical control channel without error  
4 correction, both of the forward link, are time-division  
5 multiplexed and transmitted from a wireless base station  
6 apparatus to mobile station terminals, comprising steps of:  
7       correcting transmission power with the encoding gain of  
8 said dedicated physical data channel being taken into  
9 consideration, and

10       transmitting said dedicated physical channels of the  
11 forward link with the corrected transmission power.

1       26. The power control method, as claimed in claim 25  
2 wherein:

3       said transmission power is corrected at each of  
4 transmission time intervals by said step of correcting  
5 transmission power.

1       27. The power control method, as claimed in claim 25  
2 wherein:

3       the encoding gain of the transmission power obtained by  
4 error correction processing on said dedicated physical data  
5 channel and said dedicated physical control channel is corrected  
6 by said step of correcting transmission power on the basis of  
7 bit repetition/bit thinning-out due to rate matching figured  
8 out from variations in transmitted data quantity.

1       28. The power control method, as claimed in claim 26  
2 wherein:

3       the encoding gain of the transmission power obtained by  
4 error correction processing on said dedicated physical data  
5 channel and said dedicated physical control channel is corrected  
6 by said step of correcting transmission power on the basis of  
7 bit repetition/bit thinning-out due to rate matching figured  
8 out from variations in transmitted data quantity.

1        29. The power control method, as claimed in claim 27  
2 wherein:  
3        said rate matching is to satisfy QoS requirements for voice  
4 communication and packet communication at the same time.

1        30. The power control method, as claimed in claim 28  
2 wherein:  
3        said rate matching is to satisfy QoS requirements for voice  
4 communication and packet communication at the same time.

1        31. The power control method, as claimed in claim 25  
2 wherein:  
3        said mobile communication system utilizes the CDMA  
4 formula.

1        32. The power control method, as claimed in claim 26  
2 wherein:  
3        said mobile communication system utilizes the CDMA  
4 formula.

1        33. The power control method, as claimed in claim 27  
2 wherein:  
3        said mobile communication system utilizes the CDMA  
4 formula.

1        34. The power control method, as claimed in claim 28

2 wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       35. The power control method, as claimed in claim 29

2 wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.

1       36. The power control method, as claimed in claim 30

2 wherein:

3       said mobile communication system utilizes the CDMA  
4 formula.